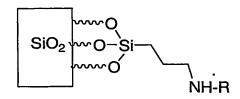
## WHAT IS CLAIMED IS:

1. A stationary phase of Formula I:



wherein

5 **R** is:

c)  $-(CH_2)_nCONH_2$ , or

d) -COOR1;

n is: 1 to 4; and

 $\mathbb{R}^1$  is:  $C_1$ - $C_2$  alkyl.

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2. The stationary phase of Formula I, as recited in Claim 1, selected from the group consisting of:

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3. A method for the purification of a peptide or a lipopeptide by using a liquid chromatography system with a stationary phase selected from the group consisting of: the stationary phase of Formula I, as recited in Claim 1, Tosoh Amide 80,

WO 2005/026323 PCT/US2004/028657

and a mobile phase, to improve the selectivity and/or productivity of the purification.

4. The method as recited in claim 3, wherein the mobile phase is a solvent system comprising one or more solvents.

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5. The method as recited in claim 4, wherein the solvents in the solvent system are selected from the group consisting of: water, methanol, ethanol, isopropanol, hexane, heptane, ethyl acetate, isopropyl acetate, acetonitrile, methyl t-butyl ether (MTBE) and methylene chloride.

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6. The method as recited in claim 4, wherein the liquid chromatography system is for the purification of a peptide.

7. The method as recited in claim 4, wherein the liquid chromatography system is for the purification of a lipopeptide.

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8. The method as recited in claim 7, wherein the lipopeptide is a fermentation product precursor of caspofungin, micafungin, cilofungin, andulifungin and daptomycin.

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9. The method as recited in claim 8, wherein the lipopeptide is the precusor of caspofungin, pneumocandin  ${\bf B_0}$ .

10. The method as recited in claim 9, wherein the mobile phase is a solvent system comprising water, methanol, and ethyl acetate.

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12. A method of purifying Pneumocandin B<sub>0</sub> with a liquid chromatography system

The method as recited in claim 6, wherein the peptide is oxytocin or bradykinin.

comprising a stationary phase selected from: Tosoh amide 80,

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WO 2005/026323 PCT/US2004/028657

and a mobile phase to improve the selectivity and/or productivity of the purification.

- 13. The method as recited in claim 12, wherein the mobile phase comprises a solvent system, wherein the solvents in the solvent system are selected from the group consisting of: water, methanol, ethanol, isopropanol, hexane, heptane, ethyl acetate, isopropyl acetate, acetonitrile, methyl t-butyl ether (MTBE) and methylene chloride.
- 14. The method as recited in claim 13, wherein the solvent system is a mixture of ethyl acetate, methanol and water.